## In the Claims:

Please cancel claims 1, 2, 5-8, 17 and 19 and amend the remaining claims as follows:

Claims 1-2 (Canceled)

- 3. (Currently amended) An isolated polynucleotide <u>according to claim 20 or 21</u> encoding the heavy chain or the heavy chain variable region of a chimeric or humanized antibody or antibody fragment according to claim 1 or 2, comprising sequences encoding at least two rWI2 heavy chain CDRs, selected from the group of CDRs consisting of: the complementary determining region -1 (CDR-1) sequence NYWMT, the complementary determining region -2 (CDR-2) sequence SITSTGGTYHAESVKG, and the complementary determining region -3 (CDR-3) sequence DDYGGQSTYVMDA.
- 4. (Currently amended) An isolated polynucleotide <u>according to claim 20 or 21</u> encoding the light-chain or the light-chain variable region of a chimeric or humanized antibody or antibody fragment according to claim 1 or 2, comprising sequences encoding at least two rWI2 light chain CDRs, selected from the group of CDRs consisting of: the complementary determining region -1 (CDRI) sequence RASQDIGNYLR, the complementary determining region -2 (CDR2) sequence GATNLAA, and the complementary determining region -3 (CDR3) sequence LHHSEYPYT.

## 5-8. (Canceled)

- 9. (original) An isolated expression vector comprising a first gene for the WI2 heavy chain and second gene for the WI2 light chain.
- 10. (original) An isolated expression vector according to claim 9 wherein said light and heavy chains are chimeric or are humanized.

- 11. (original) A host comprising said expression vector according to claim 9.
- 12. (original) An isolated first expression vector comprising a gene for WI2 heavy chain and an isolated second expression vector comprising a gene for the WI2 light chain.
- 13. (original) An isolated first and second expression vectors according to claim 12, wherein said genes are for chimeric or humanized WI2 light and heavy chain.
- 14. (original) A host comprising said first and second expression vectors according to claim 12
- 15. (Currently amended) A method of stimulating an immune response in a patient against cancers expressing carcinoembryonic antigen, which comprises administering to said patient an effective amount of a vaccine comprising the humanized anti-idiotype antibody or antibody fragment encoded by the nucleic acid of claim 2 21, conjugated to a soluble immunogenic carrier protein, optionally in combination with a pharmaceutically acceptable vaccine adjuvant.
- 16. (Currently amended) In a method of diagnosis or treatment of a patient, wherein an antibody or antibody fragment that specifically binds CEA is used as a targeting, pre-targeting or therapy agent, either as such or as a component of a conjugate,

the improvement wherein an anti-idiotype antibody encoded by the nucleic acid according to claim 2 21 is used to clear non-targeted antibody or antibody fragment.

## 17. (Canceled)

- 18. (original) A method according to claim 16, wherein said anti-idiotype antibody or antibody fragment is labeled with a radiolabel, an enzyme, or a fluorescent agent.
- 19. (Currently amended) A vaccine, comprising the humanized anti-idiotype antibody or antibody fragment encoded by the nucleic acid of claim 2 21, conjugated to a soluble

immunogenic carrier protein, for use in stimulating an immune response in a patient against a cancer characterized by expression of CEA.

- 20. (new) A nucleic acid encoding a chimeric anti-idiotype antibody or fragment thereof, wherein said antibody or fragment thereof specifically binds to the idiotype region of an anti-CEA monoclonal antibody comprising the rWI2 light chain and heavy chain variable regions.
- 21. (new) A nucleic acid encoding a humanized anti-idiotype antibody or fragment thereof, wherein said antibody or fragment thereof specifically binds the idiotype region of an anti-CEA monoclonal antibody comprising rWI2 CDR regions-and humanized FR regions.